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**WASTE WATER  
DISCHARGES REPORT**

**JUNE 1998**



**Ontario**

**Ministry  
of the  
Environment**



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# WASTE WATER DISCHARGES REPORT/1996

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## Non-Compliance

## Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
1	North Toronto WPCP	Toronto (Toronto)	Municipal	PG	<ul style="list-style-type: none"><li>Exceeded the monthly guideline for total phosphorus once. The exceedance was due to a mechanical problem which was corrected.</li></ul>
2*	Petro Canada - Oakville Refinery	Oakville (Halton/Peel)	Petroleum Refining	SR	<ul style="list-style-type: none"><li>Exceeded the monthly phenols limit once and the average pH limit twice. The above were attributed to private laboratory problems and operational difficulties with the on-line pH analyser.</li><li>The laboratory issues have been resolved and the pH analyser is being monitored to eliminate the operational difficulties.</li></ul>
3	Petro Canada - Lubricants	Mississauga (Halton/Peel)	Petroleum Refining	CA	<ul style="list-style-type: none"><li>Exceeded the E. coli limit at various times throughout the year.</li><li>A voluntary abatement program to eliminate non-compliance has just been completed. Monitoring of the program with respect to achieving compliance is currently underway.</li></ul>

Notes: 1.\* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Central Region

Non-Compliance				
No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern
4	Pringle Creek WPCP	Whitby (York Durham)	Municipal	PG

**Status Report based on Information Received from Jan 1 - Dec 31, 1996**

- Exceeded the monthly guideline for total phosphorus once.
- The exceedance resulted from chemical addition equipment failure.
- New equipment has been installed and future compliance is anticipated.

Notes:

1.\* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

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## Non-Compliance

## Eastern Region

No.	Name of Plant	Location (MOE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
1	3M Canada Inc.	Havelock (Peterborough)	Industrial Minerals	P/G	<ul style="list-style-type: none"><li>• Exceeded the monthly pH range once. The non-compliance was marginal.</li></ul>
2*	Amherstview Waste Stabilization Pond	Ernestown Township (Kingston)	Municipal	P/G	<ul style="list-style-type: none"><li>• Exceeded the annual guideline for total suspended solids. This sewage treatment works has been upgraded. Compliance with Certificate of Approval limits is anticipated in 1997.</li></ul>
3*	Arnprior WPCP	Arnprior (Ottawa)	Municipal	P/G	<ul style="list-style-type: none"><li>• Exceeded the annual guidelines for biochemical oxygen demand and total suspended solids and the monthly guideline for total phosphorus twice.</li><li>• Phased construction of a new secondary treatment plant commenced in 1996 and a return to compliance is anticipated upon completion of construction.</li></ul>

Notes:

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2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

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## Non-Compliance

## Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
4*	Ault Foods Ltd.	Winchester (Kingston)	Food Processing	CA	<ul style="list-style-type: none"><li>Exceeded the annual loading limits for total suspended solids and biochemical oxygen demand.</li><li>The company is currently upgrading the existing aeration system and is seeking approval for a staged program to further enhance the clarification and sludge management systems to achieve compliance.</li></ul>
5	Celanese Canada Inc.	Bath (Kingston)	Organic Chemical	CA	<ul style="list-style-type: none"><li>Exceeded the monthly loading limits for dissolved organic carbon twice, phenolic eight times, and total suspended solids six times.</li><li>The plant is undergoing a major production expansion at this time and the loading limits are to be revised to reflect the production increase.</li></ul>

Notes:

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## Non-Compliance

## Eastern Region

No.	Name of Plant	Location (MOEF Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
6	Cobourg No. 1 WPCP	Cobourg (Peterborough)	Municipal	PG	• Exceeded the monthly guideline for total phosphorus once. The exceedance appears to have been an isolated incident as the plant was in compliance for the remainder of the year.
7*	Cornwall Chemicals Limited	Cornwall (Kingston)	Organic Chemical	PG	• Exceeded the pH range guideline on seven occasions. The company has ceased production at this site.
8*	Donat Inc., Containerboard Division	Trenton (Peterborough)	Pulp & Paper	SR	• Exceeded the average monthly loading limit for phenol twice and the permitted pH range once. The company is under a mandatory abatement program to achieve compliance, and hopes to achieve this with a "zero discharge" facility.
9*	Donat Inc., Fine Papers Division	Cornwall (Kingston)	Pulp & Paper	SR	• Exceeded the monthly permitted pH range once. The pH excursion was an isolated incident.

Notes:

1.\* indicates facilities which also appeared in the 1995 Waste Water Discharge's Report.  
2.Type of Concern indicates whether the non compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

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## Non-Compliance

## Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
10*	Domtar Inc., Remediation Group (formerly Wood Preserving Division)	Trenton (Peterborough)	Site Remediation	CA	<ul style="list-style-type: none"><li>Exceeded the monthly limits at the "North" outfall for phenolic three times and pentachlorophenol once. Exceeded the monthly limits at the "Far North" outfall for phenolic three times, total suspended solids seven times, and pentachlorophenol twice.</li><li>The company is in the third year of a multi-year plan to bio-remediate contaminated soils on-site in order to decrease loadings to the waste treatment plant and achieve compliance.</li></ul>
11*	Dupont Canada Inc., Kingston Site	Kingston (Kingston)	Organic Chemical	PG	<ul style="list-style-type: none"><li>Exceeded the pH range twice and the phenol concentration limit once.</li><li>Compliance is anticipated when the sectoral regulation comes into effect in 1998.</li></ul>
12*	Dupont Canada Inc., Maitland Site	Maitland (Kingston)	Organic Chemical	PG	<ul style="list-style-type: none"><li>Exceeded the pH range twice and the phenol concentration limit once.</li><li>Compliance is anticipated when the sectoral regulation comes into effect in 1998.</li></ul>

Notes: 1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.  
2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

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## Non-Compliance

## Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
13*	Essroc Canada Inc.	Picton (Peterborough)	Industrial Minerals	PG	<ul style="list-style-type: none"><li>Exceeded the annual guideline for total suspended solids at the plant and the south quarry discharge monitoring stations. The company is progressing with plans to convert its south quarry into a cooling water recirculating reservoir, thus minimizing intakes from and discharges to Lake Ontario.</li></ul>
14*	Haley Industries Ltd.	Haley Station (Ottawa)	Metal Casting	CA	<ul style="list-style-type: none"><li>Exceeded the monthly loading limits for aluminum, chromium, and silver twice, cyanide once, and copper, total phosphorus and zinc three times. The company is evaluating options for upgrading its waste water treatment plant. An application for Certificate of Approval will be submitted in 1997.</li></ul>

Notes:

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## Non-Compliance

Eastern Region					
No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
15*	Hydro Agri Maitland (formerly Nutrie Inc.)	Maitland (Kingston)	Inorganic Chemical	PG	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for ammonium and total phosphorus twelve times; for mercury three times; and for the permitted pH range six times.</li> <li>The company is currently field testing a reverse osmosis treatment system.</li> </ul>
16*	ICI Canada Inc., Consolidated Packaging Operation (formerly Stanchem)	Cornwall (Kingston)	Inorganic Chemical	PG	<ul style="list-style-type: none"> <li>Exceeded the pH range eight times.</li> <li>The company is currently reviewing treatment options in order to ensure future compliance.</li> </ul>
17*	ICI Canada Inc., ICI Forest Products	Cornwall (Kingston)	Inorganic Chemical	PG	<ul style="list-style-type: none"> <li>Exceeded the pH range twice at control point 0300 and three times at control point 0400. The mercury concentration guideline was exceeded twelve times at control point 0300 and eleven times at control point 0500.</li> <li>With the dismantling of the mercury cell chlor-alkali plant in 1996, it is anticipated that the effluent quality will improve. Production at this facility now focuses on chemical pulping agents.</li> </ul>

Notes: 1.\* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

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## Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
18*	Ivaco Rolling Mill	L'Original (Kingston)	Iron & Steel	PG	<ul style="list-style-type: none"> <li>• Exceeded the annual guideline for total suspended solids.</li> <li>• The company is reviewing its treatment options for the purpose of upgrading their treatment works.</li> </ul>
19	Kingston Township WPCP	Kingston Township (Kingston)	Municipal	CA	<ul style="list-style-type: none"> <li>• Exceeded the monthly limit for total phosphorus once.</li> <li>• High flows in October resulted in secondary treatment bypassing and failure to comply with the required effluent quality. This appears to have been an isolated incident.</li> </ul>
20*	Kraft General Foods Inc.	Osnabruck Twp. (Kingston)	Food Processing	CA	<ul style="list-style-type: none"> <li>• Exceeded the monthly limit for total phosphorus twelve times.</li> <li>• This company is no longer a direct discharger. Effluent is treated at a newly constructed municipal waste water treatment plant.</li> </ul>

Notes:

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2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

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## Non-Compliance

Eastern Region					
No.	Name of Plant	Location (MOEIE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
21	Lindsay WPCP	Lindsay (Peterborough)	Municipal	CA	<ul style="list-style-type: none"> <li>● Exceeded the monthly limit for total phosphorus four times.</li> <li>The sewage treatment facility is being modified to incorporate flow equalization. Biosolids are being removed from polishing lagoons. It is anticipated that a return to compliance will be attained in 1997.</li> </ul>
22*	Long Sault WPCP	Township of Cornwall (Kingston)	Municipal	CA	<ul style="list-style-type: none"> <li>● Exceeded the monthly limit for total phosphorus once.</li> <li>This is a new sequential batch reactor treatment plant (biological removal of total phosphorus). The municipality has been instructed to optimize the chemical "back up" system for phosphorus removal to ensure consistent compliance.</li> </ul>

Notes: 1.\* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

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## Non-Compliance

## Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
23*	Morrisburg WPCP	Morrisburg (Kingston)	Municipal	PG	<ul style="list-style-type: none"><li>Exceeded the annual guideline for biochemical oxygen demand and total suspended solids.</li><li>An Environmental Study Report (ESR) is underway. An ESR must be completed before the municipality can expand its sewage treatment works.</li></ul>
24*	Nellcor Puritan Bennett Canada, Ltd.	Markland (Kingston)	Inorganic Chemical	PG	<ul style="list-style-type: none"><li>Exceeded the monthly guideline for ammonia twelve times and the pH range twice.</li><li>Since the above is directly related to an off-site contaminated water source the company is constructing a new well for the purpose of obtaining its' cooling water from an uncontaminated aquifer.</li></ul>

Notes:

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Eastern Region					
No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
25*	Pembroke WPCP	Pembroke (Ottawa)	Municipal	CA	<ul style="list-style-type: none"> <li>● Exceeded the annual limit for biochemical oxygen demand.</li> <li>● Operational changes made to date have not achieved compliance. Activities are now underway to identify the reasons for the continued non-compliance and develop a schedule to undertake remedial action to achieve compliance.</li> </ul>
26*	Plantagenet Waste Stabilization Pond	Plantagenet (Kingston)	Municipal	PG	<ul style="list-style-type: none"> <li>● Exceeded the annual guidelines for biochemical oxygen demand and total suspended solids.</li> <li>● An Environmental Study Report (ESR) will be completed for this project in 1997. An ESR must be completed before the municipality can expand its sewage treatment works.</li> </ul>
27	Praxair Canada Inc. (Formerly Liquid Carbonic)	Maitland (Kingston)	Inorganic Chemical	PG	<ul style="list-style-type: none"> <li>● Exceeded the pH range once.</li> <li>● The pH excursion was an isolated incident and not expected to continue.</li> </ul>

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## Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
28*	Prescott WPCP	Prescott (Kingston)	Municipal	PG	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for total phosphorus twice.</li> <li>The concentration of total phosphorus in the plant effluent has been well below guideline requirements since July 1996.</li> </ul>
29*	Rideau Correctional & Treatment Centre WPCP	Burritts Rapids (Ottawa)	Municipal	PG	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for biochemical oxygen demand and total suspended solids and the monthly guideline for total phosphorus six times.</li> <li>Extensive maintenance and repairs were undertaken in 1996 to the treatment plant.</li> <li>It is anticipated that the biochemical oxygen demand and total suspended solids guidelines will be met in 1997.</li> </ul>
30*	Rockland Waste Stabilization Pond	Rockland (Kingston)	Municipal	CA	<ul style="list-style-type: none"> <li>Exceeded the annual limits for biochemical oxygen demand and total suspended solids.</li> <li>A new sewage treatment plant was placed into service in July 1997 and compliance is anticipated.</li> </ul>

Notes:

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## Non-Compliance

## Eastern Region

No.	Name of Plant	Location (MOE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
31	Rohmmax Canada Co. (formerly Rohm & Haas Canada Inc.)	Morrisburg (Kingston)	Organic Chemical	PG	• Exceeded the pH range four times due to process difficulties. Operational changes have been made and compliance is anticipated.
32	Russell Waste Stabilization Pond	Township of Russell (Kingston)	Municipal	PG	• Exceeded the monthly guideline for total phosphorus once. The infraction appears to be an isolated incident and future compliance is anticipated.
33*	Strathcona Paper Company	Camden East (Kingston)	Pulp & Paper	SR	• Exceeded the monthly average plant loading limit for phenol twice. The exceedances were related to the commissioning of the new activated sludge treatment plant and future compliance is anticipated.
34	Unimin Canada Ltd.	Nepehton (Peterborough)	Industrial Minerals	CA	• Exceeded the monthly limit for total suspended solids once. The exceedance appears to have been an isolated incident and future compliance is anticipated.

Notes:

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## Non-Compliance

Eastern Region					
No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
35*	Wellington Mushroom Farm	Wellington (Kingston)	Food Processing	PG	<ul style="list-style-type: none"> <li>• Exceeded the annual guidelines for total suspended solids and biochemical oxygen demand.</li> <li>The exceedances were marginal and future compliance is anticipated.</li> </ul>
36*	Winchester Waste Stabilization Pond	Winchester (Kingston)	Municipal	CA	<ul style="list-style-type: none"> <li>• Exceeded the fall discharge loading limit for ammonia.</li> <li>The operating authority has already taken steps to reduce extraneous flows to the collection system and is presently entering Phase III of the Class EA process to construct additional facilities to resolve the non-compliance.</li> </ul>

Notes:

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# WASTE WATER DISCHARGES REPORT/1996

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## Northern Region

### Non-Compliance

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
1	Abitibi Consolidated Inc., Fort Frances (formerly Stone Consolidated Inc.)	Fort Frances (Kenora)	Pulp & Paper	SR	<ul style="list-style-type: none"><li>Exceeded the phenol loading limit once due to a plant shut down followed by a brief period of poor treatment efficiency. This one time occurrence was rectified and future compliance is anticipated.</li></ul>
2	Abitibi Consolidated Inc., Kenora (formerly Stone Consolidated Inc.)	Kenora (Kenora)	Pulp & Paper	SR	<ul style="list-style-type: none"><li>Failed a toxicity test once during a plant shut down.</li><li>This one time occurrence was rectified and future compliance is anticipated.</li></ul>

Notes:

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# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

Northern Region					
No.	Name of Plant	Location (MOE&E Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
3	Abitibi-Price Inc.	Iroquois Falls (Timmins)	Pulp & Paper	SR	<ul style="list-style-type: none"> <li>• Exceeded daily limit for total suspended solids twice due to treatment plant upsets. Marginally exceeded monthly and daily limits for total phosphorus on one occasion each.</li> <li>• The company changed the type of bleach they were using in their process, since original bleach contained a phosphorus compound responsible for the exceedances.</li> <li>• Failed toxicity test on one occasion in 1996.</li> <li>• The company segregated and redirected a toxic stream from one of the paper machines to their secondary treatment plant.</li> </ul>
4	Atikokan VPCP	Atikokan (Thunder Bay)	Municipal	CA	<ul style="list-style-type: none"> <li>• Exceedance of the total phosphorus limit once, probably due to a lab error.</li> <li>• This was an isolated incident which did not reoccur.</li> </ul>

Notes:

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## Non-Compliance

## Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
5*	Avenir Inc., Dryden	Dryden (Kenora)	Pulp & Paper	SR	<ul style="list-style-type: none"><li>One pH range exceedance.</li><li>The stream was diluted to lower the pH and diverted to a secondary treatment system.</li></ul>
6*	Avenir Inc. Thunder Bay	Thunder Bay (Thunder Bay)	Pulp & Paper	SR	<ul style="list-style-type: none"><li>Exceeded the pH range and the biochemical oxygen demand limit twice, the daily phenol limit once, and the monthly chloroform limit once.</li><li>The company has reviewed its pH control procedures, reviewed and formalized effluent plant operating procedures and begun process changes to reduce chloroform levels.</li></ul>

Notes:

- 1.\* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Northern Region

No.	Name of Plant	Location (MOE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
7*	Battle Mountain Canada Ltd., Holloway Mine (formerly Hemlo Gold Mines Inc.)	Holloway Twp. (Timmins)	Metal Mining	CA & SR	<p>Exceeded the (CA) monthly limit for total suspended solids six times and the (SR) final pH limits on three occasions.</p> <p>The company has scheduled construction of a larger underground conical sump, with flocculent addition, to increase treatment efficiency for completion in 1997. As well, the treatment plant will start using CO<sub>2</sub> for pH control in 1997.</p>
8*	Bob's Lake Lagoon	City of Timmins (Timmins)	Municipal	PG	<p>Exceeded the annual biochemical oxygen demand guideline.</p> <p>Municipality will alter the location of the inlet into the lagoon in 1997 to eliminate short circuiting. It is anticipated that this may increase treatment efficiency.</p>

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
9*	Cochrane WPCP	Cochrane (Timmins)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded the monthly limit for total phosphorus on nine occasions due to operational problems.</li><li>Additional operating procedures have been implemented to better control the chemical systems and a return to compliance is anticipated.</li></ul>
10*	Extender Minerals of Canada	Matachewan (Timmins)	Metal Mining	PG	<ul style="list-style-type: none"><li>Exceeded the guideline monthly limits for total suspended solids on three occasions.</li><li>A Certificate of Approval application has been submitted for re-engineered settling ponds.</li><li>Compliance is anticipated once the new system has been constructed.</li></ul>

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
2. Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectional Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

### Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
11 *	Falconbridge Ltd. Kidd Creek (Metallurgical Site)	Hoyle Township City of Timmins (Timmis)	Metal Mining	CA	<ul style="list-style-type: none"><li>Problems with the sludge management within the tailings management system caused a zinc carryover into the polishing pond, resulting in an exceedance of the daily limit for zinc on twelve occasions.</li><li>High flows and flooding caused seven of these zinc exceedances in April.</li><li>The excess flows also caused one exceedance of the copper limit.</li><li>The company is implementing an optimized sludge management system to ensure future compliance.</li></ul>

Note:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

Northern Region					
Non-Compliance					
No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
12*	Falconbridge Ltd. Kidd Creek (Mine Site)	City of Timmins (Timmins)	Metal Mining	CA	<ul style="list-style-type: none"><li>Exceeded the daily total suspended solids limit on ten occasions, the pH limit and the daily limit for zinc five times. A recalcification problem in the mine water treatment ponds was created by an unanticipated relationship between the lime and CO<sub>2</sub> used for pH control. Calcium Carbonate (CaCO<sub>3</sub>) was formed when the plant's effluent had a pH over 8. In addition, larger than normal spring flows reduced the detention time in the treatment ponds causing the zinc problems. By establishing the optimal pH (7.5-7.8), there has not been a reoccurrence.</li><li>A site optimization study is presently underway looking at lime addition, CO<sub>2</sub> treatment, and overall water balance. This will result in an amendment to the Certificate of Approval for a site expansion.</li></ul>

Notes:

- 1.\* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
2. Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Northern Region

No.	Name of Plant	Location (MOE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
13	Harty Lagoon	Val Rita- Harty (Timmins)	Municipal	CA	<ul style="list-style-type: none"><li>• Slightly exceeded the annual discharge limit for total phosphorus.</li><li>• The municipality will delay the discharge to later in the year, and/or treat the contents of the lagoon with alum prior to discharging.</li><li>• Compliance expected in 1997.</li></ul>
14	Inco Limited Crean Hill Mine	Town of Walden (Sudbury)	Metal Mining	CA	<ul style="list-style-type: none"><li>• Exceeded limit for nickel twice.</li><li>• The company is upgrading their facility to meet MISA requirements and compliance is anticipated.</li></ul>
15*	Inco Limited Garson Mine	Garson Twp. (Sudbury)	Metal Mining	PG	<ul style="list-style-type: none"><li>• Exceeded guideline for pH once, nickel twice and total suspended solids three times.</li><li>• Operational problems have been corrected and a pH control system will be installed in 1997.</li><li>• The company is upgrading their facility to meet MISA requirements.</li></ul>

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
16*	Inco Limited Levack Mine	Onaping Falls (Sudbury)	Metal Mining	PG	• Exceeded the guideline for pH three times and total suspended solids once. Effluent to be directed to the Falconbridge Moose Lake Treatment system in 1997. Company is eliminating this discharge point.
17*	Inco Limited Nickel Refinery	Town of Walden (Sudbury)	Metal Mining	PG	• Exceeded guideline for total metals four times. Effluent will be directed to the Copper Cliff Wastewater Treatment Plant in 1997. Company is eliminating this discharge point.
18*	Inco Limited Nolin Creek Wastewater Treatment Plant	Sudbury (Sudbury)	Metal Mining	CA	• Exceeded the limit for nickel twice. The company is upgrading their facility to meet MISA requirements and compliance is anticipated.

Notes:

- 1.\* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
- 2.Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
19	Inco Limited Shebandowan Property	Shebandowan (Thunder Bay)	Metal Mining	CA	• Exceeded the monthly limit for total suspended solids once. Exceedance was due to construction activities and weather conditions.
20 *	Inco Limited Whistle Mine	Sudbury (Sudbury)	Metal Mining	CA	• Exceeded the daily pH limit fourteen times. A pH control system will be installed in 1997.
21 *	Inmet Mining Corporation, Winston Lake Division	Schreiber (Thunder Bay)	Metal Mining	CA	• Exceeded the four month consecutive average for BOD twice. Installation of hydrogen peroxide system has resolved the problem.
22	James River - Marathon Ltd.	Marathon (Thunder Bay)	Pulp & Paper	SR	• Exceeded monthly total phosphorus limit once. Resolubilization of total phosphorus occurred as the aerated basin warmed in the spring. Steps are being taken to ensure future compliance.

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
23	Jarvis Resources Ltd.	Town of Walden ( Sudbury)	Industrial Minerals	CA	<ul style="list-style-type: none"> <li>• Exceeded the monthly limit for total suspended solids eight times. Abatement staff are meeting with the company to deal with the exceedances.</li> </ul>
24	Kinross Gold Corporation - Bell Creek Mine	Hoyle Township City of Timmins (Timmins)	Metal Mining	CA	<ul style="list-style-type: none"> <li>• Exceeded the limits for arsenic once, copper four times, and total suspended solids seven times. High spring flows and subsequent flooding conditions contributed to some of the failures.</li> <li>• Under a voluntary abatement program the company has submitted plans for modifications to their treatment systems and compliance is anticipated once the remedial measures have been completed.</li> </ul>
25	Madsen Gold Corporation, Twp of Baird	Madsen (Kenora)	Metal Mining	SR	<ul style="list-style-type: none"> <li>• Exceeded the daily total suspended solids limit twice. Exceedances were due to an operational problem which was quickly resolved.</li> </ul>

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Northern Region

### Non-Compliance

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
26*	Malete Inc. Malete Kraft Pulp and Power Division	Smooth Rock Falls (Timmmins)	Pulp & Paper	CA & SR	<p>Failed to meet non-lethal requirements of SR &amp; CA eight times, monthly SR phenol limit once, daily SR phenol limit twice and the monthly total suspended solids limit once.</p> <p>Toxicity identification investigations initiated but were not conclusive.</p> <p>High phenol related to mill start-up, company now has increased awareness of this potential problem which should help prevent future occurrences.</p>

Notes:

1.\* Indicates facilities which also appeared in the 1985 Waste Water Discharges Report.

2.Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

Northern Region					
No.	Name of Plant	Location (MOE&E Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
27*	McGarry Lagoon	Township of McGarry (Timmins)	Municipal	PG	<ul style="list-style-type: none"><li>Exceeded the annual guideline for total suspended solids and biochemical oxygen demand and the monthly total phosphorus guideline eight times.</li><li>This facility discharges to the A.J. Perron Gold Corp. tailings area, consequently becoming part of the final effluent of the Mining operation. The mines final effluent met all Certificate of Approval limits in 1996.</li><li>The municipality has completed an Environmental Study Report to provide for a new secondary treatment facility. Once the proposed plant has been constructed compliance will be achieved.</li></ul>
28	Nipigon WPCP	Nipigon (Thunder Bay)	Municipal	PG	<ul style="list-style-type: none"><li>Exceeded the biochemical oxygen demand twice.</li><li>Plant was in compliance for the remainder of the year.</li></ul>

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
2. Type of Concern Indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

### Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
29	Ontario Hydro Aikokan Thermal Generating Station	Aikokan (Thunder Bay)	Electric Power	CA	• Exceeded the total suspended solids limit once. Upgrades to the Ash Transport system currently underway. Compliance expected in 1997.
30	Outokumpu Mines Ltd.	Montcalm Twp. (Timmins)	Metal Mining	CA	• Exceeded the total suspended solids limits four times due to operational problems. The operational problems were corrected with the addition of a flocculent system and effluent concentrations improved. The company plans to suspend operations at the site for a period of 18-24 months beginning in 1997.
31	Royal Oak Mines Inc. Nighthawk Lake Mine	City of Timmins (Timmins)	Metal Mining	CA	• Exceeded the monthly un-ionized ammonia limit on six occasions. Defined and minimized sources of ammonia loadings and have implemented a pH control system.

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.

2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
32	Royal Oak Mine Inc. Pamour Mine	City of Timmins (Timmins)	Metal Mining	CA	<ul style="list-style-type: none"> <li>Exceeded the monthly total suspended solids limit once.</li> <li>Revised pond water level management strategy to prevent repeat occurrences.</li> </ul>
33*	Spruce Falls Inc	Kapuskasing (Timmins)	Pulp & Paper	CA	<ul style="list-style-type: none"> <li>Exceeded the monthly limit for E. coli seven times and the continuous limit for pH twenty-four times.</li> <li>The source for E. coli is mill sanitary sewage.</li> <li>The company will redirect sewage to a municipal sewage treatment plant by late 1997.</li> <li>In June 1996, ash from the boilers was rerouted to the primary clarifiers, eliminating the high pH levels in the effluent.</li> </ul>
34	Sturgeon Falls WPCP	Sturgeon Falls (North Bay)	Municipal	CA	<ul style="list-style-type: none"> <li>Exceeded the monthly limit for total phosphorus twice.</li> <li>A new plant has been constructed.</li> </ul>

Notes:

- 1.\* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
2. Type of Concern indicates whether the non-compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PC) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

Northern Region					
No.	Name of Plant	Location (MOE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
35	Thorne WPCP	Thorne (North Bay)	Municipal	CA	• Exceeded the annual limit for total suspended solids and biochemical oxygen demand due to design and operational changes. Plant operational changes were to be made in 1996 and compliance is expected in 1997.
36	Thunder Bay Packaging Inc.	Thunder Bay (Thunder Bay)	Pulp & Paper	CA	• New mill began operation in April 1996. Frequent exceedances of limits for biochemical oxygen demand, phenols and toluene. Abatement staff are meeting with the company to deal with the exceedances.

Notes:

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2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

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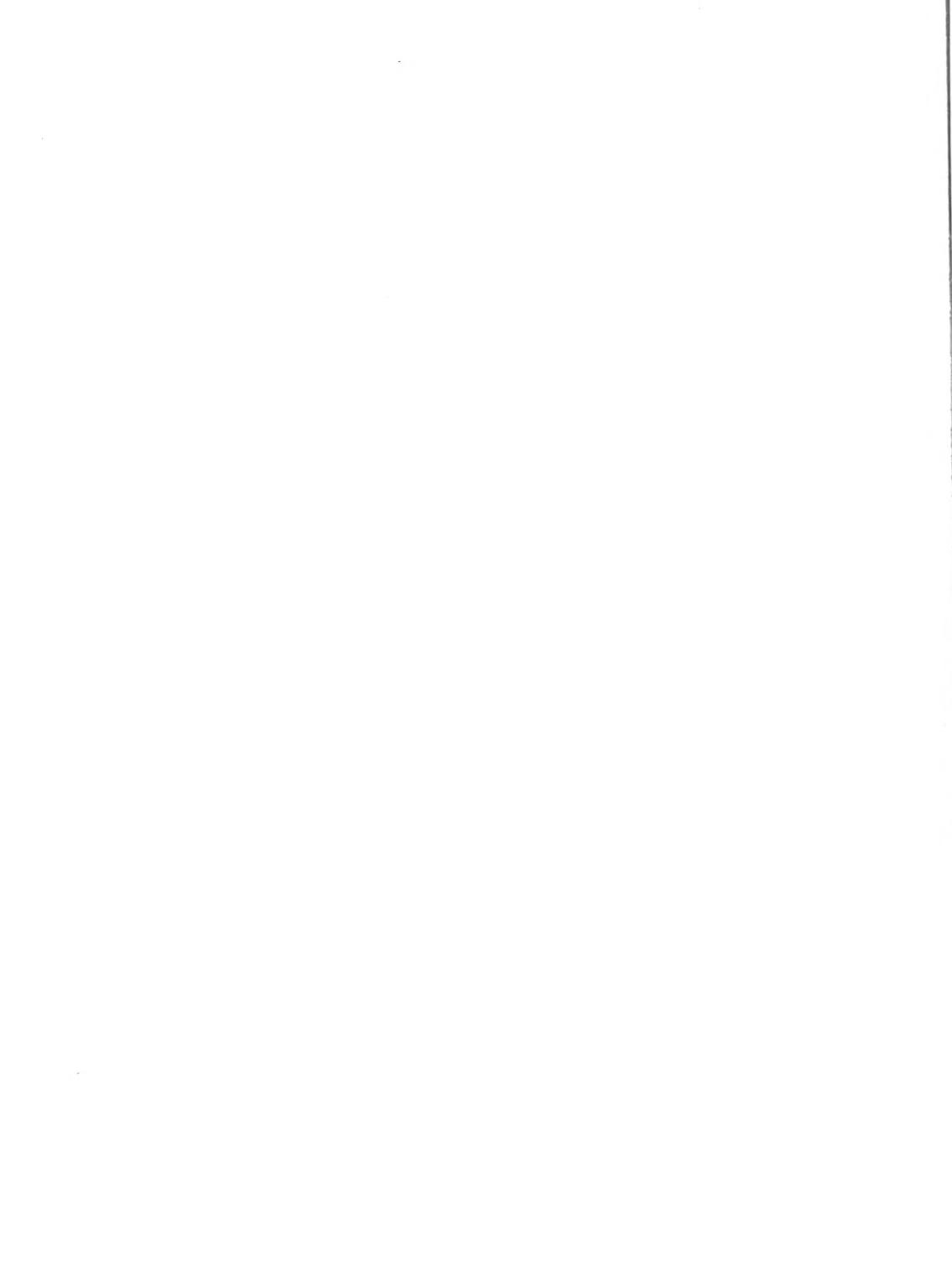
## Non-Compliance

Northern Region					
No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
37	Val Cote Lagoon	Mattice-Val Cote (Timmins)	Municipal	CA	<ul style="list-style-type: none"> <li>Exceeded limits for biochemical oxygen demand, total suspended solids and total phosphorus during the annual discharge period.</li> <li>Municipality will optimize the operation of the new lagoon by increasing the settling period prior to discharge.</li> <li>Compliance expected in 1997.</li> </ul>
38	Val Gagne Lagoon	Black River-Matheson (Timmins)	Municipal	CA	<ul style="list-style-type: none"> <li>Exceeded the annual discharge concentration and loading limits for total suspended solids during the 1996 discharge period.</li> <li>Changes to the operating procedures will be instituted in 1997 and compliance is anticipated.</li> </ul>

Notes:

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2.Type of Concern indicates whether the non compliance was with a Control Order (CO) Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).



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Ministry of Environment and Energy

## Non-Compliance

### Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
1*	Barrie WPCP	Barrie (Barrie)	Municipal	CA	• Exceeded total phosphorus limit once. One clarifier had been removed from service for repairs, compliance anticipated for 1997.
2	Beachlime - East Plant	Zorra Twp. (London)	Industrial Minerals	PG	• One total suspended solids exceedance due to extremely heavy rain prior to sampling. pH range exceeded on nine occasions due to problems with the neutralizing system, problem has been corrected.
2a	Beachlime - West Plant	Zorra Twp. (London)	Industrial Minerals	PG	• Exceeded the total suspended solids single limit seven times and the monthly limit three times due to heavy rains, pond cleaning and sump dredging. Exceeded the pH limit four times due to problems with one of the treatment units. Installation of additional treatment facilities is currently underway.

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Southwestern Region

### Non-Compliance

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
3	City of London-Oxford WPCP	London (London)	Municipal	CA	<ul style="list-style-type: none"> <li>Exceeded single sample limit for total suspended solids three times, (two due to high flows/bypass situation and once due to U.V. system cleaning), total ammonia twice due to higher than expected influent ammonia, and total phosphorus twice. The operational difficulties were overcome and compliance is anticipated.</li> </ul>
4	City of Woodstock	Woodstock (London)	Municipal	PG	<ul style="list-style-type: none"> <li>Exceeded monthly average total phosphorus guideline once. Chemical addition adjusted accordingly and compliance achieved for the remainder of the year.</li> </ul>
5*	City of London-Pottersburg WPCP	London (London)	Municipal	CA	<ul style="list-style-type: none"> <li>Exceeded the monthly average total phosphorus limit once due to operational problems with the chemical feed system. This was corrected and compliance achieved for the remainder of the year.</li> </ul>

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
6	Cold Springs Farms-Township of Zorra	Zorra Twp. (London)	Food Processing	CA	<ul style="list-style-type: none"><li>Exceeded monthly average E. coli limit once.</li><li>This marginal exceedance was attributed to sampling procedural problems. These have since been corrected and compliance achieved.</li></ul>
7	Drumbo WPCP	Drumbo (London)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded the monthly ammonia concentration limit eight times, the monthly ammonia loading limit seven times, the total phosphorus limit once, and the chlorine residual limit continuously.</li><li>The municipality is studying ways to rectify the non-compliance issues.</li></ul>
8*	Ethyl Canada Inc.	Sarnia (Sarnia)	Organic Chemical	CA	<ul style="list-style-type: none"><li>Exceeded the limit for 1,2 dichloroethane during one batch discharge.</li><li>To prevent a reoccurrence, the company's holding tank was cleaned.</li></ul>

Notes:

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2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Southwestern Region

### Non-Compliance

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
9*	Ford - St. Thomas Assembly Plant	Southwold Twp. (London)	Industrial	CA	<ul style="list-style-type: none"> <li>• Several exceedances of the total suspended solids daily limits due to low pond levels. Company is currently in the process of modifying their storm retention pond to improve solids settling and eliminate future non-compliance.</li> <li>•</li> </ul>
10	Forest Lagoons	Plympton Twp. (Sarnia)	Municipal	PG	<ul style="list-style-type: none"> <li>• Exceeded the annual guideline for total suspended solids.</li> <li>• Problem associated with high sludge levels and decaying vegetation. A new tertiary treatment plant has since been built and the problem corrected.</li> </ul>
11	Grand Bend Lagoons	Grand Bend (Sarnia)	Municipal	PG	<ul style="list-style-type: none"> <li>• Exceeded the annual guideline for total suspended solids.</li> <li>• Problem was caused by the disturbance of bottom solids by a large number of fish that were present during the discharge period. Compliance anticipated for 1997.</li> </ul>

Notes:

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# WASTE WATER DISCHARGES REPORT/1996

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## Non-Compliance

## Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
12*	Huntsville Mountain View WPCP	Huntsville (Barrie)	Municipal	CA	• Exceeded the monthly total phosphorus limit three times. Problems were associated with the chemical feed system. The system is being monitored closely and improvements scheduled for the future.
13	Imperial Oil Refinery	Sarnia (Sarnia)	Petroleum	SR	• Exceeded the limit for phenol twice as a result of Area 2 Unit Start-up after a power failure. Procedure changes have been made for start-ups to address this situation.
14	Flesherton WPCP	Flesherton (Owen Sound)	Municipal	CA	• Exceeded the monthly ammonia limit once. The operating authority has implemented revised operating strategies to prevent non-compliance in the future.
15	Lafarge Canada Inc.	Zorra Twp. (London)	Industrial Minerals	PG	• Exceeded the total suspended solids limit once. Attributed to disturbance of soil around the effluent weir during reconstruction.

Notes:

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2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

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## Non-Compliance

## Southwestern Region

No.	Name of Plant	Location (MOE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
16	Nuclear Generating Station A Ont. Hydro Bruce	Tiverton (Owen Sound)	Electric Power	CA	<ul style="list-style-type: none"> <li>• Exceeded limits for change in total suspended solids (intake to outfall) twice. Since Hydro is not adding the total suspended solids, they are seeking a Certificate of Approval (CoA) amendment to recognize lake water quality variability.</li> <li>•</li> </ul>
17*	Ontario Hydro Lambton Thermal Generating Station	Moore Township (Sarnia)	Electric Power	CA	<ul style="list-style-type: none"> <li>• Exceeded the limit for total suspended solids, pH and dissolved oxygen. Efforts to modify the operation to achieve compliance have been only partially successful. A consultant has been retained to conduct an optimization study to address the outstanding non-compliance issues.</li> <li>•</li> </ul>
18*	Port Elgin WPCP	Port Elgin (Owen Sound)	Municipal	CA	<ul style="list-style-type: none"> <li>• Exceeded limit for total phosphorus once and total suspended solids twice. Deficiencies are felt to be operationally related. District staff have met with the Town who have requested their consultant to assist in upgrading operations at the facility. Compliance is anticipated for 1997.</li> <li>•</li> </ul>

Notes:

1. \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
2. 2. Type of Concern indicates whether the non-compliance was with a Control Order (CO), Certificate of Approval (CA), Policy and Guidelines (PG) or Sectoral Regulation (SR).

# WASTE WATER DISCHARGES REPORT/1996

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## Non-Compliance

### Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
19*	Shell Canada Products Ltd.	Sarnia (Sarnia)	Petroleum	CA	<ul style="list-style-type: none"> <li>Exceeded the limits for phenol, solvent extractable and volatile suspended solids. The above was due to an unusually severe (100-year) storm that occurred on June 22, causing the discharge of the storm water pond water without treatment. Future compliance is anticipated.</li> </ul>
20*	Shell Canada Products Ltd.	Sarnia (Sarnia)	Petroleum	SR	<ul style="list-style-type: none"> <li>Exceeded the volatile suspended solids limit once.</li> <li>New equipment has been installed and no further exceedances noted.</li> </ul>
21*	Tavistock Lagoon	Tavistock (London)	Municipal	CA	<ul style="list-style-type: none"> <li>Exceeded the monthly limit for total suspended solids and biochemical oxygen demand during spring discharge.</li> <li>The operator discontinued the discharge.</li> </ul>
22*	Town of Strathroy	Strathroy (London)	Municipal	PG	<ul style="list-style-type: none"> <li>Exceeded monthly average guideline for total phosphorus once as a result of excessively high flows.</li> <li>The MOEE has conducted an extensive plant audit and operational issues are being addressed through a voluntary compliance program.</li> </ul>

Notes:

- \* Indicates facilities which also appeared in the 1995 Waste Water Discharges Report.
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# WASTE WATER DISCHARGES REPORT/1996

Ministry of Environment and Energy

## Non-Compliance

## Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
23*	Walkerton WPCP	Walkerton (Owen Sound)	Municipal	PG	<ul style="list-style-type: none"><li>Exceeded the phosphorus guideline twice due to equipment malfunction.</li><li>Plant is at capacity for hydraulic and organic loadings. An Optimization study has been completed and discussions are ongoing with the municipality.</li></ul>
24	Wallaceburg STP	Wallaceburg (Sarnia)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded the monthly average for E. coli bacteria once.</li><li>The problem was associated with one of the final clarifiers being out of service and higher than normal addition of ferrous chloride. The problem has been corrected and future compliance anticipated.</li></ul>
25*	Wasaga Beach WPCP	Wasaga Beach (Barrie)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded the monthly limit for total phosphorus four times.</li><li>The operational difficulties creating the non-compliance have been resolved and compliance achieved. Upgrades to the treatment system are currently under construction to improve treatment further.</li></ul>

Notes:

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# WASTE WATER DISCHARGES REPORT/1996

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## Non-Compliance

## West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	Status Report based on Information Received from Jan 1 - Dec 31, 1996
1	Cainsville Lagoon	Brantford Township (Cambridge)	Municipal	CA	• Exceeded the daily loading limit for biochemical oxygen demand on seven days, the average discharge over the twenty-one day discharge period met the limit. The operators of the Lagoon will modify the daily rate of discharge to meet these limits.
2*	Cytec Canada Inc.	Niagara Falls (Niagara)	Inorganic Chemical	CA	• Exceeded monthly average limit for total suspended solids eight times, and the daily limit for pH 39 times. These exceedances have been attributed to storm events. Under a voluntary abatement program the company has plans to incorporate water conservation measures to reduce storm water impacts and improve monitoring to address these exceedances.

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3	Domtar Specialty (Fine) Papers	St. Catharines (Niagara)	Pulp & Paper	SR	<ul style="list-style-type: none"><li>Exceeded limits for rainbow trout toxicity twice and Daphnia magna toxicity once.</li><li>The company installed an aeration basin for biological treatment in 1996 and compliance expected in 1997.</li></ul>
4*	Dundas WPCP	Dundas (Hamilton)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded the limits for total phosphorus and total kjeldahl nitrogen once.</li><li>The municipality is involved in a voluntary abatement program to achieve compliance.</li></ul>
5	Elmira WPCP	Elmira (Cambridge)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded yearly average loading limit for total kjeldahl nitrogen.</li><li>The municipality has commissioned a study to address the infiltration problem.</li></ul>
6*	Exelon-ESK, Company of Canada Ltd.	Thorold (Niagara)	Inorganic Chemical	CA	<ul style="list-style-type: none"><li>Exceeded limit for aluminum twice.</li><li>Company has installed primary treatment to address exceedances.</li><li>Compliance expected in 1997.</li></ul>

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Status Report based on Information Received from Jan 1 - Dec 31, 1996					
No.	Name of Plant	Location (MOEE Office)	Type of Effluent	Type of Concern	
7	Gallagher Thorold Paper Co. (formerly Fraser /Noranda Paper Mill)	Thorold (Niagara)	Pulp & Paper	SR	<ul style="list-style-type: none"><li>Exceeded limits for monthly average suspended solids twice, daily total suspended solids twice, daily biochemical oxygen demand once, rainbow trout toxicity twice, and <u>Daphnia magna</u> toxicity once.</li><li>The company has initiated a study to install secondary treatment to address these exceedances.</li></ul>
8*	General Motors of Canada	St. Catharines (Niagara)	Metal Castings	PG	<ul style="list-style-type: none"><li>Exceeded guideline for monthly average suspended solids five times, daily total suspended solids 11 times, and PCBs nine times.</li><li>The plant is no longer in operation.</li></ul>

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9*	Georgia Pacific Canada Inc. (formerly Beaver Wood Fibre Inc.)	Thorold (Niagara)	Pulp & Paper	SR	<ul style="list-style-type: none"><li>Exceeded limits for monthly average total suspended solids eight times, rainbow trout toxicity twice, and <u>Daphnia magna</u> toxicity three times.</li><li>The company installed and commissioned secondary treatment in April 1996. Effectiveness of secondary treatment system is under assessment by company.</li></ul>
10*	Georgia Pacific Canada Inc. (formerly Domtar Inc.)	Caledonia (Hamilton)	Industrial Minerals	CA	<ul style="list-style-type: none"><li>Exceeded monthly limit for oil and grease twice.</li><li>The company has entered into a voluntary abatement program to address these exceedances.</li></ul>

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11	Guelph DoLime Limited	Guelph Township (Cambridge)	Industrial Mineral	PG	<ul style="list-style-type: none"><li>Exceeded monthly guideline for concentration of total suspended solids weekly average concentration nine times and monthly average concentration five times due maintenance problems with the berms and roadways on site.</li><li>The Company has been requested to improve maintenance practices to ensure future compliance.</li></ul>
12	Hespeler WPCP	Cambridge (Cambridge)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded average monthly concentration limit for total phosphorus due to plant upsets caused by industrial inputs.</li><li>An industrial discharge surveillance program was conducted and the problems have stopped.</li></ul>

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- 2.

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13*	Horizon Poultry Products	Ayr (Cambridge)	Food Processing	CA	<ul style="list-style-type: none"><li>Exceeded the daily limits for E. coli twice.</li><li>Poor sample handling suspected.</li><li>New procedures were instituted and no more exceedances have occurred.</li></ul>
14*	Interlake Paper Inc. (formerly Kimberly Clark)	Thorold (Niagara)	Pulp & Paper	SR	<ul style="list-style-type: none"><li>Exceeded limits for monthly average toluene twice and daily toluene six times.</li><li>The company will install additional aeration to deal with these exceedances.</li></ul>
15	International Minerals & Chemical Corp. (Can.), Ltd.	Port Maitland (Hamilton)	Inorganic Chemical	CA	<ul style="list-style-type: none"><li>Exceeded limit for pH.</li><li>The limit for pH on the Certificate has been amended to reflect the pH limit in the Sectoral Clean Water Regulation.</li><li>The company has been in compliance since amendment.</li></ul>

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16	Lake Erie Steel Co. Ltd. (formerly Stelco)	Nanticoke (Hamilton)	Iron & Steel	CA	Exceeded limit for total suspended solids once. This was an isolated incident due to heavy rainfall in the month.
17*	Mount Forest WPCP	Mount Forest (Cambridge)	Municipal	PG	Exceeded monthly guideline for total phosphorus five times while experimenting with an alternate coagulant. Plant has switched back to ferric chloride and has since remained in compliance.
18	Nanticoke Thermal Generating Station (Ontario Hydro)	Nanticoke (Hamilton)	Electric Power	CA	Exceeded ash lagoon limits for total suspended solids once, zinc once, and copper nine times. These incidents were isolated and very minor in nature. A return to compliance is expected in 1997.

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19	Nanticoke Thermal Generating Station (Ontario Hydro)	Nanticoke (Hamilton)	Electric Power	PG	<ul style="list-style-type: none"><li>Exceeded guideline for total suspended solids for the ash transport system on numerous occasions.</li><li>An abatement program to divert this discharge through a treatment system will be completed in August, 1997.</li><li>A return to compliance is expected upon completion.</li></ul>
20	New Hamburg Lagoon	New Hamburg (Cambridge)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded the monthly limits for total phosphorus and ammonia nitrogen once due to an MOEE sanctioned test of the effluent filtration system.</li><li>The testing phase was completed, all units returned to service and compliance was achieved.</li></ul>

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21*	Norton Advanced Ceramics	Niagara Falls (Niagara)	Inorganic Chemical	CA	<ul style="list-style-type: none"><li>Exceeded limit for maximum pH four times and minimum pH twice.</li><li>The company conducted maintenance on the pH adjustment system to improve operating efficiency.</li></ul>
22	Orangeville WPCP	Orangeville (Cambridge)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded the monthly limit for total nitrogen loading twice.</li><li>Exceedances were due to extremely high flows in March and April.</li><li>The municipality is working to find and eliminate sources of infiltration into the sewers.</li></ul>

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23*	Port Robinson Lagoon.	Port Robinson (Niagara)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded limit for monthly average total suspended solids once.</li><li>Exceedance attributed to sampling during ice break-up. Subsequent sampling indicated compliance with limit.</li><li>Region of Niagara is conducting an optimization study to improve effluent quality.</li></ul>
24*	Rothesay Rendering, Division of Maple Leaf Mills Ltd.	Flamborough (Hamilton)	Rendering Plant	CA	<ul style="list-style-type: none"><li>Exceeded monthly limit for total suspended solids once.</li><li>This was attributed to algae problems and considered to be an isolated incident.</li><li>A return to compliance is expected in 1997.</li></ul>

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25	Sanmi Steels, (formerly Atlas Specialty Steels)	Welland (Niagara)	Iron & Steel	PG	• Exceeded monthly average guideline for nickel four times, zinc nine times, total suspended solids once, and rainbow trout toxicity six times. The company intends to modify its filter effluent plant to address this issue.
26*	Sulco Chemicals Ltd.	Elmira (Cambridge)	Inorganic Chemical	PG	• Exceeded monthly guideline for fluoride three times. Exceedances were due to a change in municipal water supply with high Fluoride.
27*	Washington Mills (formerly Washington Mills Electro Minerals)	Niagara Falls (Niagara)	Inorganic Chemical	CA	• Exceeded limit for aluminum twice. The company intends to improve the efficiency of both lagoons by improved flow distribution and water conservation measures (furnace modifications) to address the problem.

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28*	Waterloo WPCP	Waterloo (Cambridge)	Municipal	CA	<ul style="list-style-type: none"><li>Exceeded the monthly limits for total suspended solids three times and total phosphorus twice.</li><li>Exceedances are attributed to recurring bulking and foam problems.</li><li>The installation of new scum removal equipment has reduced the problems.</li></ul>

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